| Issue Classification |  |  |  |  |  |  |  |  |  |  |
|----------------------|--|--|--|--|--|--|--|--|--|--|
|                      |  |  |  |  |  |  |  |  |  |  |

| Application No. | Applicant(s) |  |
|-----------------|--------------|--|
| 10/611,441      | HWANG ET AL. |  |
| Examiner        | Art Unit     |  |
| Kyle M. Riddle  | 3748         |  |

|   |      |      |       |                | IS      | SUE CI                            | LASSIF                           | <b>ICATIO</b>          | N                                 |       |  |  |  |  |  |  |  |  |
|---|------|------|-------|----------------|---------|-----------------------------------|----------------------------------|------------------------|-----------------------------------|-------|--|--|--|--|--|--|--|--|
|   |      |      | ORIG  | INAL           |         |                                   |                                  | ÇRO:                   | SS REFERENC                       | CE(S) |  |  |  |  |  |  |  |  |
|   | CLA  | ss   |       | SUBCLASS       | CLASS   | SUBCLASS (ONE SUBCLASS PER BLOCK) |                                  |                        |                                   |       |  |  |  |  |  |  |  |  |
|   | 12   | 23   |       | 90.15          | 123     | 90.12                             | 90.13                            | 90.38                  | 193.3                             | 193.5 |  |  |  |  |  |  |  |  |
| 11  | NTEF | RNAT | IONAL | CLASSIFICATION |         |                                   |                                  |                        |                                   |       |  |  |  |  |  |  |  |  |
| F   | 0    | 1    | L     | 1/34           |         |                                   |                                  |                        |                                   |       |  |  |  |  |  |  |  |  |
|   |      |      |       | 1              |         |                                   |                                  |                        |                                   |       |  |  |  |  |  |  |  |  |
|   |      |      |       | 1              |         |                                   |                                  |                        |                                   |       |  |  |  |  |  |  |  |  |
|   |      |      |       | 1              |         |                                   |                                  |                        |                                   |       |  |  |  |  |  |  |  |  |
|   |      |      |       | 1              |         |                                   |                                  |                        |                                   |       |  |  |  |  |  |  |  |  |
| Kyle M. Riddle (Assistant Examiner) (Date)  (Legal Instruments Examiner) (Date) |      |      |       |                |         | SUP                               | ERVISORY                         | ls denion<br>Patent ex | Total Claims Allowed: 15          |       |  |  |  |  |  |  |  |  |
|   |      |      |       |                | 1/26/00 |                                   | ECHNOLOG<br>mary Examine<br>HLVV | y <b>center</b>        | O.G. O.0 Print Claim(s) Print 1 1 |       |  |  |  |  |  |  |  |  |

| Claims renumbered in the same order as presented by applicant |          |   |       |          |   |       |          | ☐ CPA |       |          | T.D.                                    |       |          | ☐ R.1.47 |         |          |  |       |          |
|---|----------|---|-------|----------|---|-------|----------|-------|-------|----------|---|-------|----------|----------|---------|----------|--|-------|----------|
| Final   | Original |   | Final | Original |   | Final | Original |       | Final | Original |   | Final | Original |          | Final   | Original |  | Final | Original |
|   | 1        |   |       | 31       |   |       | 61       |       |       | 91       |   |       | 121      |          |         | 151      |  |       | 181      |
|   | 2        |   |       | 32       |   |       | 62       |       |       | 92       |   | ***   | 122      |          |         | 152      |  |       | 182      |
|   | 3        |   |       | 33       |   |       | 63       |       |       | 93       |   |       | 123      |          |         | 153      |  |       | 183      |
|   | 4        |   |       | 34       |   |       | 64       |       |       | 94       |   |       | 124      |          |         | 154      |  |       | 184      |
| -   | 5        |   |       | 35       |   |       | 65       |       |       | 95       |   |       | 125      |          |         | 155      |  |       | 185      |
|   | 6        |   |       | 36       |   |       | 66       |       |       | 96       |   |       | 126      |          |         | 156      |  |       | 186      |
| -   | 7        |   |       | 37       |   |       | 67       | [     |       | 97       |   |       | 127      |          |         | 157      |  |       | 187      |
|   | 8        |   |       | 38       |   |       | 68       |       |       | 98       |   |       | 128      |          |         | 158      |  |       | 188      |
|   | 9        |   |       | 39       |   |       | 69       |       |       | 99       |   |       | 129      |          |         | 159      |  |       | 189      |
|   | 10       |   |       | 40       |   |       | 70       |       |       | 100      |   |       | 130      |          |         | 160      |  |       | 190      |
|   | 11       |   |       | 41       |   |       | 71       |       |       | 101      |   |       | 131      |          |         | 161      |  |       | 191      |
|   | 12       |   |       | 42       |   |       | 72       |       |       | 102      |   |       | 132      |          |         | 162      |  |       | 192      |
|   | 13       |   |       | 43       |   |       | 73       |       |       | 103      |   |       | 133      |          |         | 163      |  |       | 193      |
|   | 14       |   |       | 44       |   |       | 74       |       |       | 104      |   |       | 134      |          |         | 164      |  |       | 194      |
|   | 15       |   |       | 45       |   |       | 75       |       |       | 105      |   |       | 135      |          |         | 165      |  |       | 195      |
|   | 16       |   |       | 46       |   |       | 76       |       |       | 106      |   |       | 136      |          |         | 166      |  |       | 196_     |
|   | 17       |   |       | 47       |   |       | 77       |       |       | 107      |   |       | 137      |          |         | 167      |  |       | 197      |
|   | 18       |   |       | 48       |   |       | 78       |       |       | 108      |   |       | 138      |          |         | 168      |  |       | 198      |
|   | 19       | 1 |       | 49       |   |       | 79       |       |       | 109      |   |       | 139      |          | <u></u> | 169      |  |       | 199      |
|   | 20       | 1 |       | 50       | 1                                       |       | 80       |       |       | 110      |   |       | 140      |          | L       | 170      |  |       | 200      |
|   | 21       |   |       | 51       |   |       | 81       |       |       | 111      |   |       | 141      |          |         | 171      |  |       | 201      |
|   | 22       |   |       | 52       |   |       | 82       |       |       | 112      |   |       | 142      |          |         | 172      |  |       | 202      |
|   | 23       |   |       | 53       |   |       | 83       |       |       | 113      |   |       | 143      |          |         | 173      |  |       | 203      |
|   | 24       | 1 |       | 54       |   |       | 84       |       |       | 114      |   |       | 144      |          |         | 174      |  |       | 204      |
|   | 25       | 1 |       | 55       |   |       | 85       | 7     |       | 115      |   |       | 145      |          |         | 175      |  |       | 205      |
|   | 26       | 1 |       | 56       | 1:::::::::::::::::::::::::::::::::::::: |       | 86       |       |       | 116      | ]                                       |       | 146      |          |         | 176      |  |       | 206      |
|   | 27       | 1 |       | 57       | 1                                       |       | 87       | 1     |       | 117      | ]:::::::::::::::::::::::::::::::::::::: |       | 147      | ]        |         | 177      |  |       | 207      |
|   | 28       | 1 |       | 58       | 1                                       |       | 88       |       |       | 118      | 1                                       |       | 148      |          |         | 178      |  | :     | 208      |
|   | 29       |   |       | 59       | 1,000                                   |       | 89       |       |       | 119      |   | :     | 149      |          |         | 179      |  |       | 209      |
|   | 30       | 1 |       | 60       |   |       | 90       |       |       | 120      |   |       | 150      |          |         | 180      |  | 1     | 210      |